INTEGRATED CIRCUIT SIGNAL ROUTING USING RESOURCE COST
ASSIGNMENT AND COSTING DATA

ABSTRACT

Method, apparatus, and computer readable medium for determining signal routing cost within an integrated circuit is described. In an example, the integrated circuit is divided into topology units and includes routing resources. A respective span is determined in terms of one or more of the topology units for each of the routing resources. A cost value is assigned to each of the routing resources using the respective span associated therewith. A routing resource is selected from the routing resources. At least one distance between the routing resource and at least one other of the routing resources is calculated. A future cost value for the at least one distance is computed using the cost value assigned to the routing resource.